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APPLICATION NO.	F.	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/646,634	0/646,634 08/21/2003		Michael Stuart Robbins	89205.0011	9781
26021	7590	10/27/2006		EXAMINER	
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1999 AVEN SUITE 1400		HE STARS		ART UNIT	PAPER NUMBER
LOS ANGELES, CA 90067				2613	
				DATE MAILED: 10/27/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)		
		10/646,634	ROBBINS ET AL.		
	Office Action Summary	Examiner	Art Unit		
		Dzung D. Tran	2613		
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address		
VVHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. The presence of the provisions of the provisio	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from cause the application to become ARANDONE!	l		
Status					
2a)	Responsive to communication(s) filed on <u>04 Au</u> This action is FINAL . 2b) This Since this application is in condition for allowan closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro			
Dispositi	on of Claims	•			
5)□ 6)⊠ 7)⊠ 8)□ Applicati 9)□ 10)□	Claim(s) 1-6,8-13,15 and 17-19 is/are pending 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1-6, 12, 13, 15 & 17-19 is/are rejected Claim(s) 8-11 is/are objected to. Claim(s) are subject to restriction and/or on Papers The specification is objected to by the Examiner The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction The oath or declaration is objected to by the Examiner	vn from consideration. I. Telection requirement. The second of the discount of the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is objected to be the discount of the drawing(s) is objected to the drawing(s) is objecte	ected to. See 37 CFR 1.121(d).		
Priority u	nder 35 U.S.C. § 119				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
2) D Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08)	4) Interview Summary (Paper No(s)/Mail Da 5) Notice of Informal Pa	te		
	No(s)/Mail Date	6) Other:			

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DETAILED ACTION

Specification

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claims 1-3 recite the limitation "said bandpass filter" in line 12 of claim 1. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 4, 6, 12, 13, 15, 17 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Du et al. (U.S. Patent no. 6,107,938) in view of Barfod (U.S. Patent no. 5,539,393).

Regarding claims 4 and 12, Du discloses in figure 5, an interference resistant infrared communication system, comprising:

an infrared detector 88 (col. 9, lines 57-58) for receiving an infrared optical communication signal (col. 9, line 57);

an amplifier 84 (col. 9, line 59), coupled to the infrared detector 88, for amplifying an electrical signal generated by the infrared detector 88;

a bandpass filter (e.g., infrared filter 60), coupled to the infrared detector 88, and having a center wavelength for permitting home and office infrared control system signals to substantially pass through the filter while substantially preventing interfering signals from reaching the infrared detector (col. 11, lines 19-23); and

an infrared light emitter 92 (col. 9, line 24), coupled to the amplifier 84, for emitting a signal in response to an electrical signal generated by the infrared detector 88.

Du differs from claims 4 and 12 of the present invention in that Du does not specifically disclose a bandpass filter passes light falling within a wavelength range of 920nm to about 980nm.

Barfod discloses a bandpass filter passes light within a wavelength range of about 950nm to about 1600nm (col. 9, lines 11-13). At the time of the invention was made, it would have been obvious to a person of ordinary skill in the art to incorporate the bandpass filter taught by Barfod in the optical communication system of Du. One of the ordinary skill in the art would have been motivated to do this in order to provide an optical filter with a very high finesses to filter-out extremely narrow bandwidth wavelengths of light energy and to reduce sensitivity to external perturbations such as noise to improve the stability of the system.

Regarding claim 13, Du discloses the infrared detector 88 comprises at least one infrared photodetector (col. 9, lines 57-58).

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Regarding claim 15, Du discloses the filter 60 further comprises an electromagnetic interference screen (col. 11, lines 19-23).

Regarding claim 17, Du discloses a method for communicating, comprising: an infrared detector 88 (col. 9, lines 57-58) for detecting an infrared electromagnetic communication signal and converting the infrared electromagnetic communication signal to an electrical signal;

an amplifier 84 (col. 9, line 59) for amplifying the electrical signal;

a bandpass filter (e.g., infrared filter 60) for filtering all signals outside of a frequency band used by home and office infrared control system signals from the infrared electromagnetic communication signal prior to detecting the infrared electromagnetic communication signal (col. 11, lines 19-23);

an infrared light emitter 92 (col. 9, line 24) for emitting an infrared electromagnetic signal in response and corresponding to the electrical signal, wherein a desired infrared optical communication signal is substantially converted to an electrical signal while interfering signals are substantially prevented from being converted to an electrical signal (col. 9, lines 57-58).

Du differs from claims 4 and 12 of the present invention in that Du does not specifically disclose a bandpass filter passes light falling within a wavelength range of 920nm to about 980nm.

Barfod discloses a bandpass filter passes light within a wavelength range of about 950nm to about 1600nm (col. 9, lines 11-13). At the time of the invention was made, it would have been obvious to a person of ordinary skill in the art to incorporate

the bandpass filter taught by Barfod in the optical communication system of Du. One of the ordinary skill in the art would have been motivated to do this in order to passes light falling within a wavelength range of 920nm to about 980nm and provide an optical filter with a very high finesses to filter-out extremely narrow bandwidth wavelengths of light energy and to reduce sensitivity to external perturbations such as noise to improve the stability of the system.

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Regarding claims 6 and 19, Figure 5 clearly shown the amplifier 84 for amplifying the electrical signal that is converted the infrared signal by the infrared detector 88.

Thus, it is inherently that the sensitivity of the amplifier 84 is increased such that the sensitivity of the receiver is increased with respect to the impinging infrared light.

5. Claims 5 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Du et al. (U.S. Patent no. 6,107,938) in view of Barfod (U.S. Patent no. 5,539,393) and further in view of Mc Guire (U.S. Patent no. 6,114,684).

Regarding claims 5 and 18, as per claims above, Du discloses all the limitations except for more than one photodetector is used to increase the sensitivity of the receiver to the impinging infrared light. Mc Guire discloses in figure 7, a plurality of photodiode detectors, each detector has a filter 24 for passing light within a predetermined frequency range. At the time of the invention was made, it would have been obvious to a person of ordinary skill in the art to incorporate the plurality photodetector taught by Mc Guire in the optical communication system of Du and Barfod. One of the ordinary skill in the art would have been motivated to do this in order

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for the receiving unit to receive a plurality of infrared light having different frequency range. Thus, it increases the sensitivity of the receiver to the impinging infrared light.

- 6. Claims 8-11 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 7. Claims 1-3 would be allowable if rewritten to overcome the 35 U.S.C. 112 Rejection above.

Response to Arguments

8. Applicant's arguments with respect to claims 4-6, 12, 13, 15 and 17-19 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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MONTHS from the mailing date of this action. In the event a first reply is filed within

A shortened statutory period for reply to this final action is set to expire THREE

TWO MONTHS of the mailing date of this final action and the advisory action is not

mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and

any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date

of the advisory action. In no event, however, will the statutory period for reply expire

later than SIX MONTHS from the date of this final action.

11. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Dzung Tran whose telephone number is (571) 272-

3025.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

Supervisor, Jason Chan, can be reached on (571) 272-3022.

The fax phone number for the organization where this application or proceeding

is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is (703) 305-

3900.

Dzung Tran

PRIMARY PATENT EXAMINER

10/20/2006